
SONY



3-755-307-11 (1)

Electronic Book Player

DD-10EX

User's Guide

Before operating the unit, please read this manual thoroughly and retain it for future reference.

DATA Discman

Owner's Record

The model number and the serial number are located on the bottom. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. DD-10EX Serial No.

English

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

CAUTION

The use of optical instruments with this product will increase eye hazard.

For the Customers in the U.S.A.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the

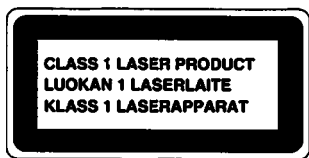
following measures:

- Reorient the receiving antenna
- Relocate the equipment with respect to the receiver
- Move the equipment away from the receiver
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00345-4.

For the Customers in European Countries



This electronic book player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the bottom exterior

For the customers in Canada

This apparatus complies with the Class B limits for radio noise emissions set out in Radio Interference Regulations.

Varning

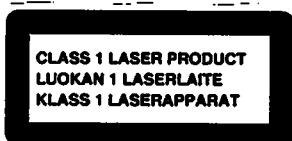
Usätt inte denna anläggning för regn och fukt för att undvika riskerna för brand och/eller elektriska stötar.

OBS!

Användandet av reglage, utförandet av justeringar och tillvägagångssätt som skiljer sig från dem, som anges i denna bruksanvisning, kan resultera i farlig bestrålning.

CD-fickdatorn klassificeras som en laserprodukt tillhörande Klass 1.

Etiketten CLASS 1 LASER PRODUCT finns på baksidan.



Ustrålningen från den laserkomponent som finns i denna laserprodukt överstiger den strålningsgräns som ställs på Klass 1.

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Introduction

How to Use This Manual

This manual describes how to set up and operate the DD-10EX Electronic Book Player. Below are some suggestions on how to use the manual more effectively.

To set up the player

Read the "Preparation" chapter and learn how to choose from the 4 types of power sources available for use. If you want to use a TV or monitor for display, be sure to read the "Connecting to Your TV" section on page 23.

To operate the player

The "Operating the Electronic Book Player" chapter documents the hardware aspects of operation. Be sure to read the "Inserting/Removing an Electronic Book" section on page 26 and learn the proper way of handling an electronic book. This device also doubles as a CD player, and the "Playing a Regular Compact Disc" section explains the operation.

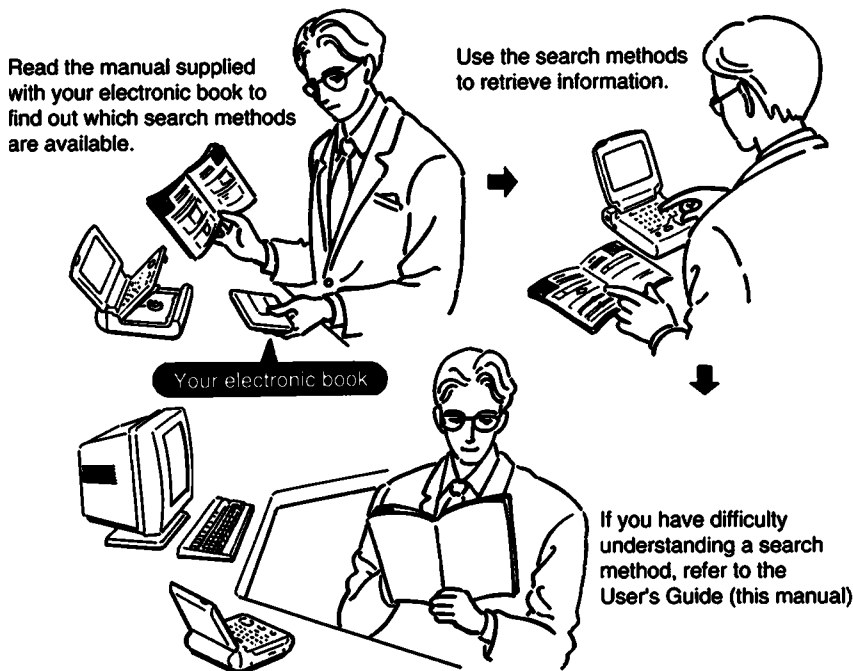
To learn how to retrieve information

The DD-10EX offers 6 search methods, plus the ability to cross-refer to related entries. The "Searching for Information" chapter details their definitions and usages.

Finally, if you come across any problem, see the "Troubleshooting" section on page 63 for suggestions.

Note that not all of the search methods are supported on every electronic book. So be sure to check the manual which comes with your purchased electronic book to find out which search methods have been included by the publisher.

The illustration below shows when to use which of the two manuals.



The example screen displays used in this manual are not taken from any commercial electronic books. They were created solely for the purpose of explaining the DD-10EX operation in this manual.

About the **EG** and **EXA** marks

When you buy an electronic book for this player, make sure the book has an **EG** or an **EXA** mark on it. Electronic books with the **EG** mark may contain text and graphics, and those with the **EXA** mark may contain text, graphics, and sound.

What is an Electronic Book?

An electronic book consists of an 8-cm (3 inch) compact disc and a caddy. The disc is a CD-ROM (Compact Disc - Read Only Memory) and the caddy is designed to protect the disc. Therefore, the disc should be used while inside its caddy.

Much like a conventional book, an electronic book contains information in the form of text and graphics; some may even have sound as well.

How much information can an electronic book store?

An electronic book can store a massive amount of information, for example, an entire multi-volume encyclopedia. (200,000,000 characters or about 100,000 pages of typed text)

How is information organized in an electronic book?

An electronic book contains information arranged in "entries." The nature of an entry depends on the electronic book title (volume). For example, an entry in a dictionary electronic book would correspond to a definition in a conventional dictionary. For an encyclopedia, the electronic book entries would be topic entries just as in the case of a conventional encyclopedia. For a restaurant guide, each entry might consist of information about a particular restaurant.

What is an Electronic Book Player?

When you read a conventional book, all you need to do is open the book and flip through the pages. To read an electronic book, however, you need a special device to locate and visually display information. The device is called an electronic book player.

What Can the DD-10EX Electronic Book Player Do?

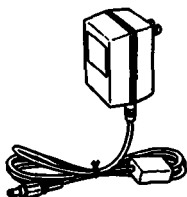
The DD-10EX lets you locate information in a number of ways: Word Search, Endword Search, Keyword Search, Menu Search, Multi-Search, and Graphic Search. The retrieved information is presented in a combination of text, graphics, or sound. Also, you can use the DD-10EX to play regular compact discs (CD singles).

Preparation

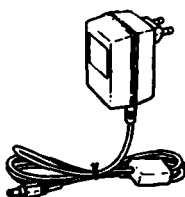
Checking the Package Contents

Make sure the following accessories are included in the package
If any of them is missing, contact your local Sony dealer.

AC power adaptor (see page 15)



Supplied with the
model for U.S.A.



Supplied with the model
for the European countries

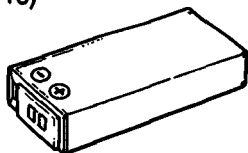
Video connecting cord (see page 23)



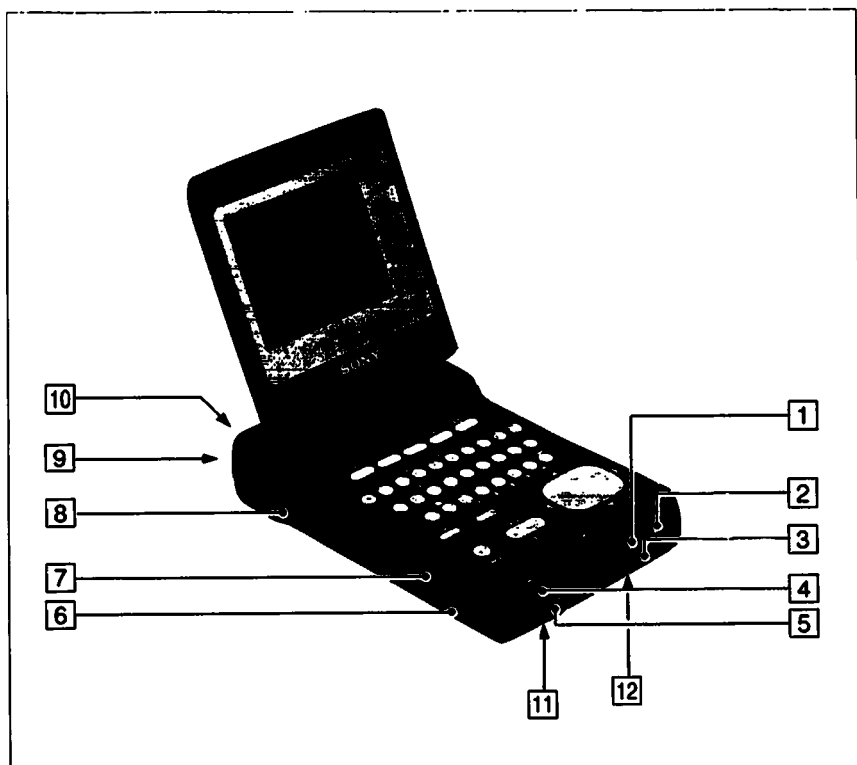
Headphones (see page 32)



Rechargeable battery pack BP-2EX (see page 16)



Identifying the Parts



1 ■ (OFF) button (page 30)

2 ► (POWER ON) button
(page 29)

3 HOLD switch (page 32)

4 OPEN switch (page 26)

5 VOLUME control (page 32)

6 PHONES jack (page 32)

7 Tab (page 26)

8 DC IN 6V jack (pages 15, 22)

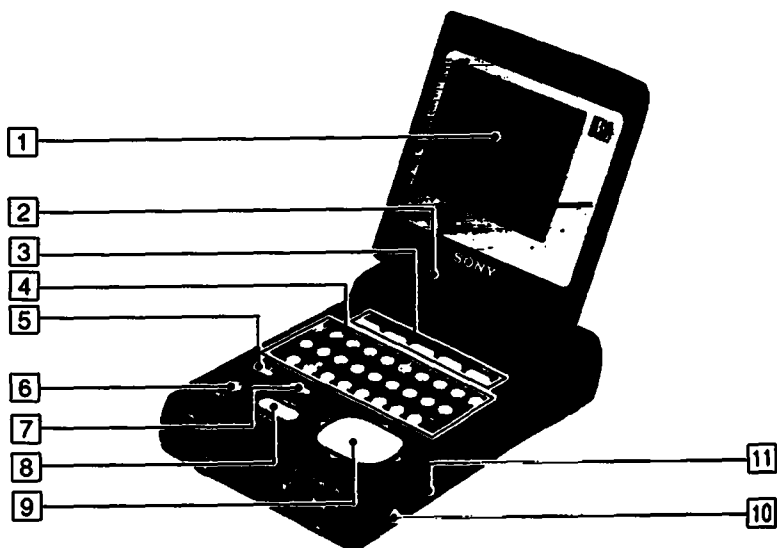
9 Battery compartment (page 16)

10 Battery compartment cover
(pages 16, 20)

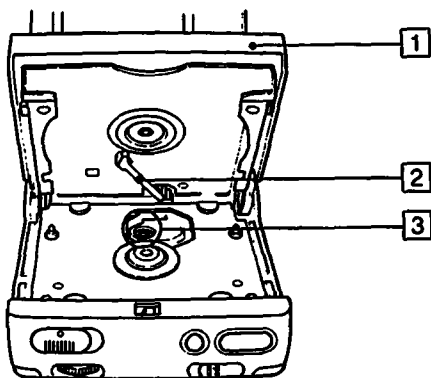
11 Reset switch (page 65)

12 TV select switch (page 23)

Identifying the Parts



- | | |
|---|--|
| 1 Display (page 18) | 7 SHIFT key (page 42) |
| 2 LIGHT switch (page 31) | 8 YES key (pages 41, 52, 53) |
| 3 Function keys (page 41) | 9 ▲▼◀▶ (cursor) key (pages 41, 52, 53) |
| 4 Letter and number keys (page 42) | 10 VIDEO OUT jack (page 23) |
| 5 INPUT MODE key (page 42) | 11 CONTRAST control (page 31) |
| 6 NO key (pages 41, 52, 53) | |



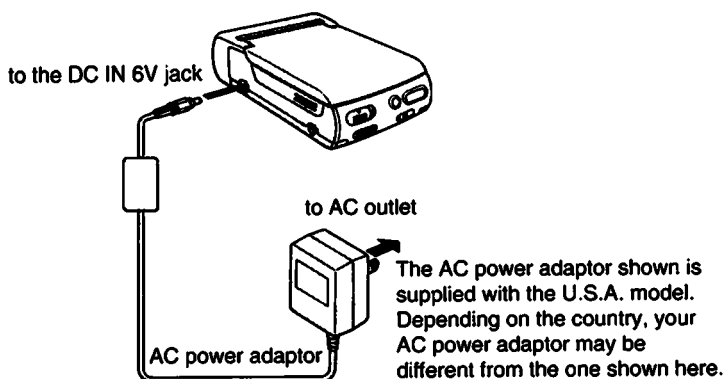
- | |
|---|
| 1 Disc compartment lid (page 26) |
| 2 Shutter opening lever |
| 3 Lens (page 61) |

Choosing a Power Source

The electronic book player works with a number of power sources: AC power (house current), the supplied rechargeable battery pack, regular batteries, and a car battery. The following describes each of them.

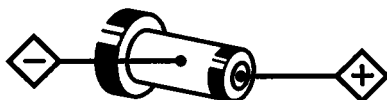
AC Power

You can use the supplied AC power adaptor to connect the player to an AC outlet (house current). If regular batteries or the rechargeable battery pack is installed, the player will still automatically choose AC power. You may, however, keep the batteries or the rechargeable battery pack inside the battery compartment, just for convenience. The following shows how to connect to an AC outlet.



Notes on the AC power adaptor


- When the AC power adaptor is not used, unplug it from the AC outlet.
- Use only the AC power adaptor supplied. Do not use any other AC power adaptor.



Rechargeable Battery Pack

The rechargeable battery pack (supplied) can operate the DD-10EX up to 1.2 hours on a charge. Before you use it, make sure the AC power adaptor is unplugged from the player and the AC outlet. When the player starts up, it will then use the power from the battery pack.

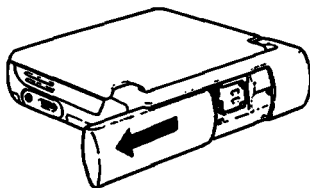
When is recharging required?

A newly bought battery pack must be charged before use. You also need to recharge it when you see the  mark appearing on the display.

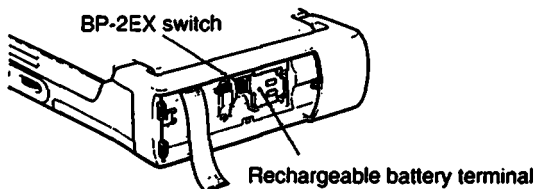
The following describes how to insert and charge the battery pack.

Inserting the battery pack

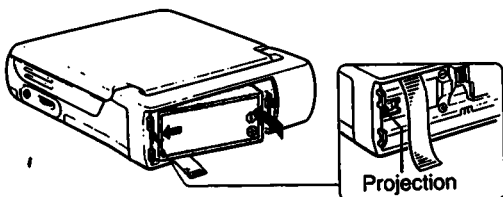
- 1 Slide to remove the battery compartment cover.



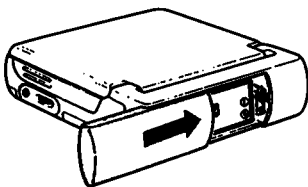
- 2 Move the BP-2EX switch to the left to flip out the rechargeable battery terminal.



- 3** Insert the battery pack with the correct polarity. Place the battery pack against the projection in the compartment, then have the terminals end rest against the rechargeable battery terminal.




- 4** Replace the cover.



Notes on the rechargeable battery pack

- Store the battery pack at a temperature between 5 °C (41 °F) and 35 °C (95 °F) for best performance.
- Keep the battery pack away from fire.
- Do not short-circuit the battery terminals.
- Do not disassemble the battery pack.

Charging the battery pack

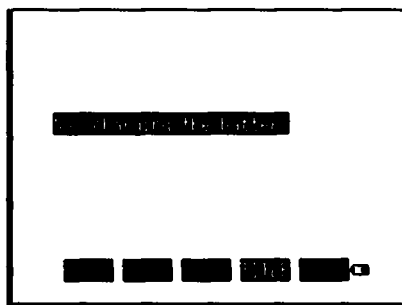
You must charge a newly bought battery pack. And, if during the player operation the  mark appears on the display, turn off the player and recharge the battery pack. Any electronic book or compact disc inside the player can remain there during the charge.

A full charge takes about 3 hours, and can deliver up to 1.2 hours in normal operation or 30 minutes when the display light (page 31) is turned on. To charge, follow the steps below.

- 1** Make sure the battery pack is inside the battery compartment.
- 2** Connect the AC power adaptor (page 15).
- 3** Press **▶II** (POWER ON).

An opening message appears briefly on the display. (If you cannot see anything, read page 31 and adjust the contrast.)

- 4** When "BATT" appears in the center black box at the bottom of the display, press **(F3)** (BATT).
"Now charging the battery" appears.



When the charge is completed (about three hours for a full charge), "Charge complete" appears.

To operate the player during the charge, press **(NO)** or **(F4)** (TITLE).

To stop the charge, simply unplug the AC power adaptor.

- 5** Unplug the AC power adaptor.

Notes on charging

- When a fully discharged battery pack is recharged, "Cannot charge the battery" appears, followed shortly by "Now charging the battery." This is not a malfunction.
- Pressing ■ (OFF) or opening the disc compartment lid does not interrupt the charging operation.
- Be sure to use the supplied AC power adaptor for charging the battery pack.
- During a charge, if you unplug the AC power adaptor, the battery charge indication appears, but the amount indicated is only approximate due to the affect of temperature, usage, etc. Therefore, it is best to allow the battery pack to fully charge.

To check the remaining power of a battery pack

- 1 Unplug the AC power adaptor.
- 2 Press ►II (POWER ON).
- 3 Press (F3) (BATT).

The battery charge indication appears, showing the present level of battery power.

If the battery power drops below a certain level, "The battery is empty" appears.


If the battery pack is completely discharged, then either no message appears or you simply cannot turn on the player.

Battery life

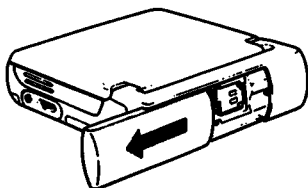
If the battery pack can deliver, after a full charge, for only about half the time it normally could, replace it with a new one.

Regular Batteries

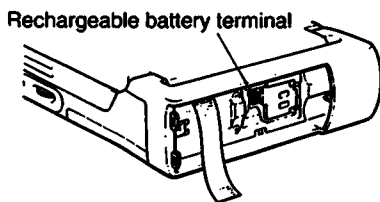
The player can also operate on regular batteries. Four size AA (LR6) batteries (not supplied) are required, and they last for about 3 hours for normal operation, or 1.5 hours if the display light is turned on (page 31).

When the batteries become exhausted, the  mark appears on the display briefly, and after a while the player turns off. (To check the amount of battery power remaining, see page 19.) When this occurs, you need to replace the batteries, as follows.

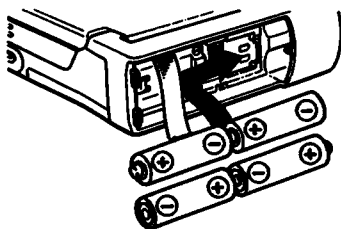
- 1 Slide to remove the battery compartment cover.



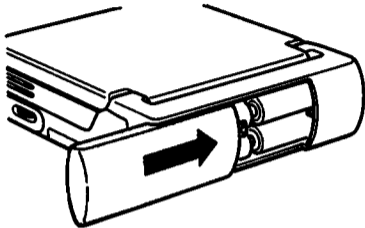
- 2 If necessary, slide and hold the BP-2EX switch, press down the rechargeable battery terminal, then release the switch to lock the terminal.



- 3 Insert batteries with the correct polarity.



4 Replace the cover.



Caution

Regular batteries cannot be recharged; therefore, do not attempt to recharge them.

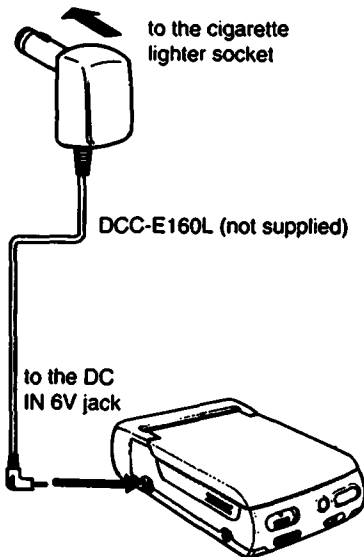
Notes on batteries

- Insert batteries with the correct polarity.
- Avoid mixing old batteries with new ones or different types of batteries.
- When you are not going to use the player for a long time, remove any batteries inside. If a battery leaks, clean the battery compartment and replace all the batteries.

Choosing a Power Source

Car Battery

To use the player in your car with power from your car battery, you need the DCC-E160L car battery cord (not supplied). Connect as follows.



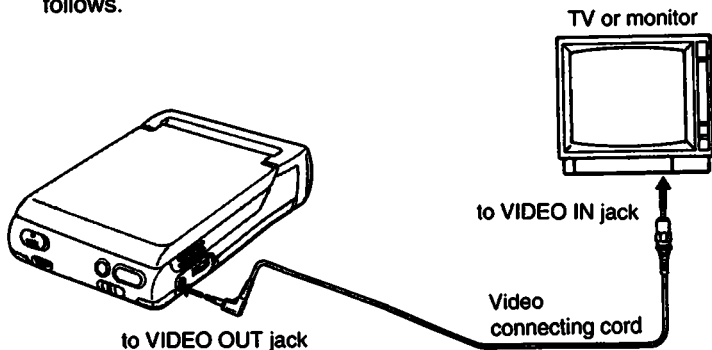
Caution

Disconnect the cord from the cigarette lighter socket when you are not using the player. Otherwise, the car battery may be discharged.

Connecting to Your TV

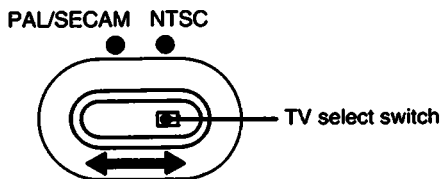
A TV or monitor provides a larger screen for easier "reading" of an electronic book. To connect to it, make sure it comes with a VIDEO IN jack, and follow the steps below.

- 1 Use the supplied video connecting cord and connect as follows.



- 2 Use a pointed device (such as a pen) to set the TV select switch on the bottom of the player, according to the table below.

If the TV or monitor was bought in	Set the TV select switch to
USA/JAPAN	NTSC
Europe	PAL/SECAM



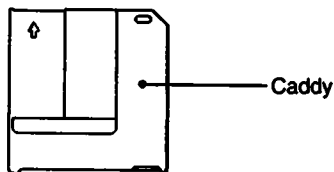
Notes on using a TV or monitor

- While operating the player, if you connect or disconnect the cord from the VIDEO OUT jack, the contrast on the DD-10EX display may change. If this happens, use the CONTRAST control on the player to adjust the contrast (page 31).
- The screen may flutter when the displayed information changes. This is not a malfunction.
- Information shown on a TV in PAL/SECAM system may look slightly different from the player's display. This is not a malfunction.
- Recording the electronic book contents onto a video cassette is not possible, even if the player is connected to a video cassette recorder.
- Avoid setting the TV select switch while turning on the player.

Operating the Electronic Book Player

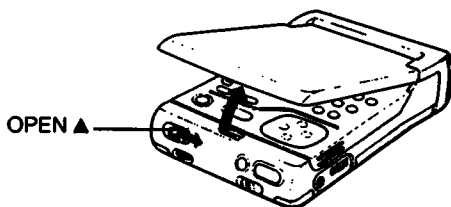
Inserting/Removing an Electronic Book

Each electronic book disc is housed in its caddy for protection against scratches and dust; it can be used while inside the caddy. Therefore, avoid taking out the disc except for maintenance or troubleshooting.

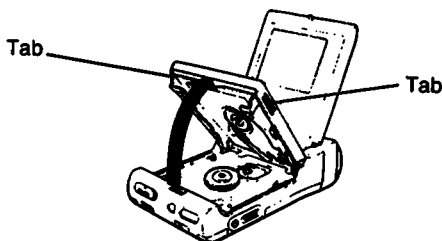


Inserting the Electronic Book

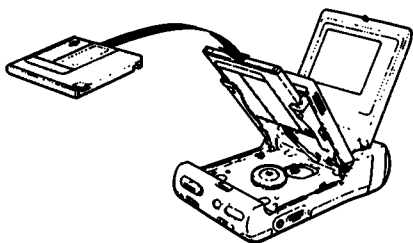
- 1 Place the player on a level surface. Then, slide the OPEN switch and lift the cover.



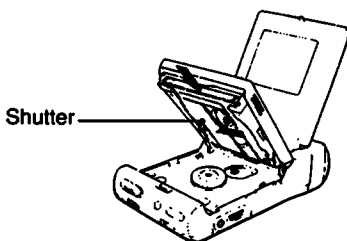
- 2 While holding the player steady, use the tabs to lift the disc compartment lid fully until it stops.



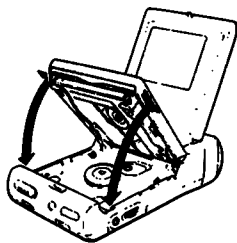
- 3** Insert the electronic book, label side up, into the slot.



- 4** Following the "PUSH Electronic Book" indication on the disc compartment lid, push the book all the way down and make sure the shutter is opened as a result.



- 5** Hold the tabs and gently close the lid.



If the disc compartment lid cannot be closed

It may be due to the following reasons:

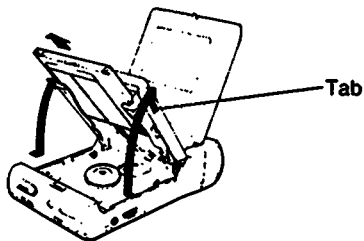
- The lid was not fully opened when the electronic book was inserted.
- The shutter could not be opened.

To avoid damaging the electronic book inside the player, do not force the lid to close. Instead, see next page to remove the book and try again.

Inserting/Removing an Electronic Book

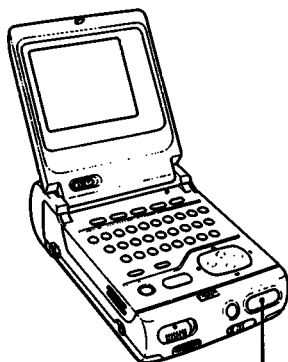
Removing the Electronic Book

Hold the tabs to lift the disc compartment lid; the electronic book inside will pop out. Remove the electronic book.



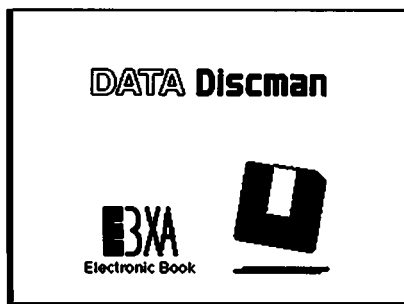
Playing an Electronic Book

To play an electronic book, insert it into the disc compartment lid, then press ►|| (POWER ON) to turn on the player.



►|| (POWER ON)

An opening message appears briefly, as shown below.



After a while, the title selection menu appears and you can start a search session. For detailed explanation, see the "Searching for Information" chapter starting page 40.

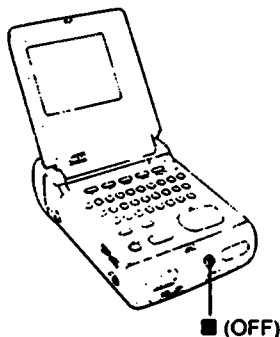
If the player remains idle for 20 minutes

If the player, while operating on regular batteries or the rechargeable battery pack, remains idle for about 20 minutes, it will turn off automatically to save battery power.

Stopping the Player

To stop playing an electronic book, use the steps below.

- 1 Press ■ (OFF)



- 2 Remove the electronic book from the player. (For details, see the "Removing the Electronic Book" section on page 28.)

Using the Bookmark

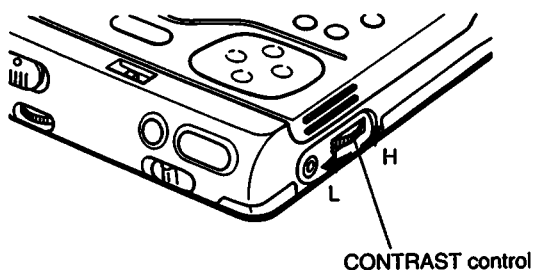
The player has a bookmark function. As with a conventional bookmark, the electronic bookmark lets you mark a place in the electronic book. (See the "Searching for Information" chapter for explanation on searches).

- 1 When a result is displayed after a search, press ⊖ (B-MARK) to "insert" the bookmark.
The display blanks out.
- 2 Remove the electronic book inside.

Next time when you insert the same electronic book and press ►|| (POWER ON), the search result will appear again. If, however, you insert a different electronic book, the bookmark will be lost.

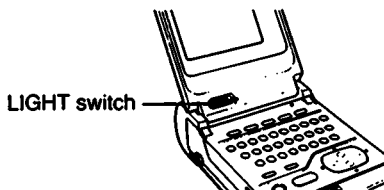
Adjusting the Contrast

If the contrast on the display is not satisfactory, use the CONTRAST control to adjust it. Moving the control toward H increases the contrast, whereas moving it toward L decreases the contrast.



Turning on the Display Light

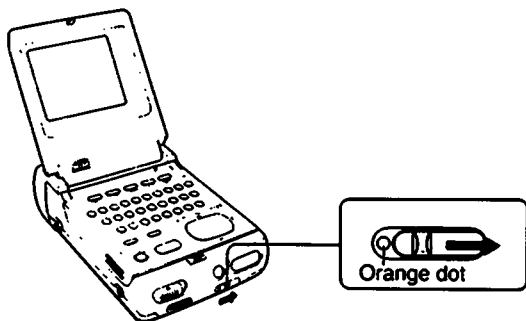
If you want to make the display brighter and thus easier to read, you can turn on the display light. Setting the LIGHT switch to ON turns on the light, whereas setting the switch to OFF turns it off. When the display light is on, however, more battery (regular or rechargeable) power will be used.



Locking the Controls

The HOLD switch locks the ►|| (POWER ON) and ■ (OFF) buttons so that they cannot function. This feature is useful when, for example, you are transporting the player or listening to a compact disc in an unstable environment.

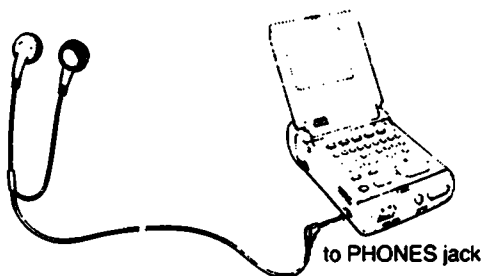
To lock, slide the HOLD switch to the right so that the orange dot can be seen.



Listening to Sound

You can use the supplied headphones to listen to a compact disc, or the audio information (if included) in an electronic book. See the "Playing a Regular Compact Disc" and "Listening to Audio Information" sections for details.

Before you listen to the sound, plug the headphones into the PHONES jack and try to set the VOLUME control to a low level. Then increase it to a higher, more comfortable level when you are listening.



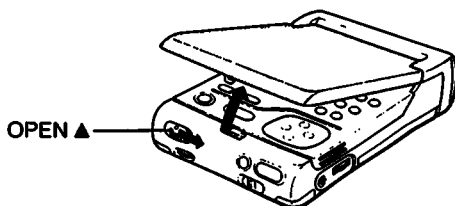
Playing a Regular Compact Disc

This player can also double as a CD player and play regular 8-cm (3 inch) compact discs.

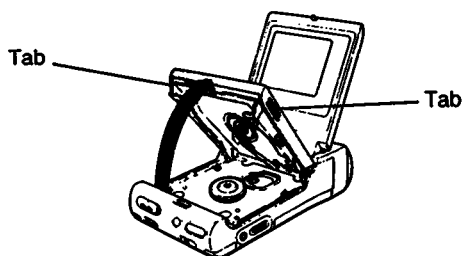
Caution

Remove the electronic book (if any) from the disc compartment lid, before inserting a regular compact disc.

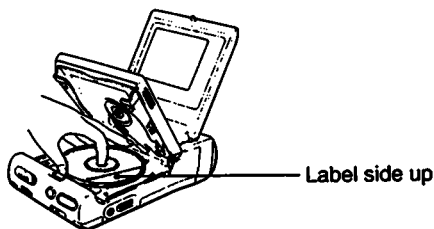
- 1 Place the player on a level surface. Then, slide the OPEN switch and lift the cover.



- 2 While holding the player steady, use its tabs to lift the disc compartment lid fully until it stops. Remove any electronic book inside the slot.



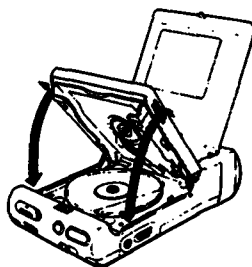
- 3 Place a compact disc, label side up, on the rotation device of the player.



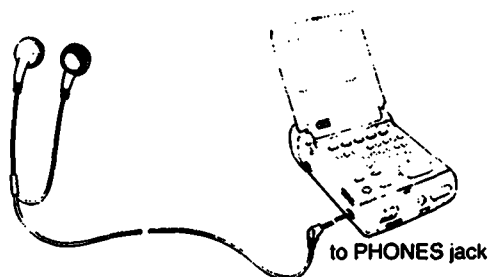
(Continued)

Playing a Regular Compact Disc

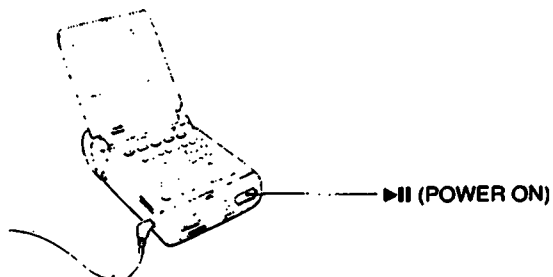
- 4** Hold the tabs and gently close the lid.



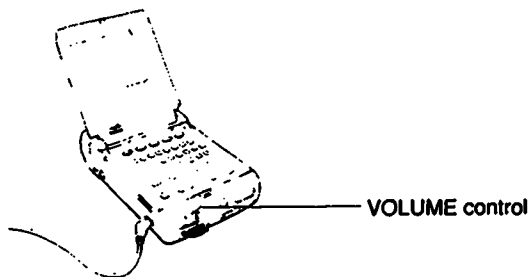
- 5** Plug the headphones into the PHONES jack.



- 6** Press ►|| (POWER ON)



- 7** Adjust the volume with the VOLUME control.



To stop the player

Press ■ (OFF).

To pause

Press ►|| (POWER ON).

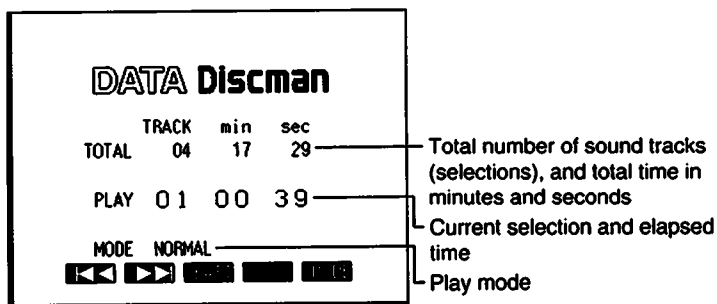
"PAUSE" appears.

To resume

Press ►|| (POWER ON) again.

Reading the Disc Information

While a disc is being played, information about the disc (as shown below) appears on the display. You can use this information to help you search for a desired selection or a desired point, or change the play mode.



Locating a Desired Selection

When you are playing a compact disc, you can use the following function keys, together with the disc information on the display, to move to a desired selection.

To move to	Action
Beginning of the current selection or previous selection	Press (F1) (⏮). The player moves first to the beginning of the current selection. Thereafter, with each press of (F1) (⏮), the player will move backward by one selection.
Next selection	Press (F2) (⏭). With each press of (F2) (⏭), the player will move forward by one selection.

Locating a Desired Point

Instead of a very short press, if you press and hold the (F1) (⏮) or (F2) (⏭) for more than 1 second, their functions change so that you can fast forward or fast rewind the player, thus allowing you to locate a point within a selection.

To	Action
Fast forward	Press and hold (F2) (⏭). Read the disc information displayed. When you find the desired point, release the function key.
Fast rewind	Press and hold (F1) (⏮). Read the disc information displayed. When you find the desired point, release the function key.

Using the Various Play Modes

Four play modes are available, and pressing **(F5)** continuously changes the mode as follows:



where:

- | | |
|----------------|---|
| NORMAL | – normal mode |
| 1 REPEAT | – repeat a single selection |
| ALL REPEAT | – repeat all selections |
| SHUFFLE REPEAT | – repeat all selections in random order |

Searching for Information

What Kind of Search Can You Do?

With the player, you can search for entries in your electronic book using the methods described below.

Searching for a Word (Word Search and Endword Search)

You can search for a word by entering its beginning letters or final letters.

Searching for an Entry with Keywords (Keyword Search)

You can search for an entry that applies to all of the keywords you have entered.

Searching for Topics from a Menu (Menu Search)

You can search for topics from an online menu that is similar to the table of contents in a conventional book.

Searching for an Entry That Meets Certain Conditions (Multi-Search)

You can search for an entry in an electronic book that meets a number of conditions.

Searching for an Entry Graphically (Graphic Search)

You can search for entries with the aid of graphic symbols.

Cross-refer to an entry

You can cross-refer to the related entries, pictures, or sound while viewing a certain entry. The cross reference mark (=>) is inserted into the electronic book by the publisher.

Note

Each electronic book supports different methods to search for entries. Refer to the manual supplied with each electronic book.

Using the Keyboard

This section explains the use of the keyboard. Use the cursor key to move around the display or make menu choices with the pointer.

Use the function keys to perform the functions listed below.

Moving the cursor or pointer

To move up	▲
To move down	▼

Undoing an action

To return to the previous screen	(NO)
To re-enter an item	(F3) (RETRY)

Finalizing an action

To select an item	(F5) (SEL) or (YES)
To start a search	(F5) (ENTER) or (YES)

Choosing from a list

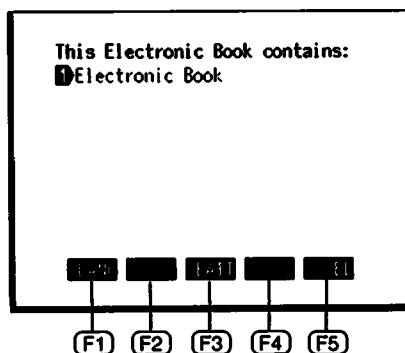
When a list of choices is displayed, select the desired choice with the ▼ ▲ key and press (YES).

If the list is more than one page long, (F1) (PGUP) and (F2) (PGDN) can be used.

A choice can also be made directly by pressing the indicated number key.

Using the Function Keys

The functions shown in the black boxes at the bottom of the display correspond to (F1), (F2), (F3), (F4) and (F5). These keys function only when you see the names of the functions, such as "ESC", "ENTER", etc. displayed in the black boxes.



Entering Letters and Numbers

You can choose letters and numbers to enter information on the display.

To enter letters

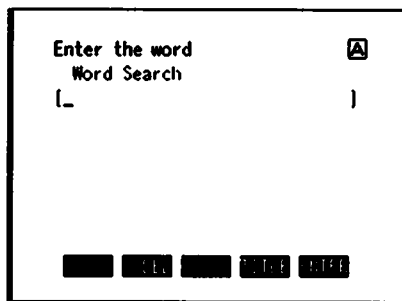
Make sure that the indication at the top of the screen shows **A**.

To enter numbers

Make sure that the indication at the top of the screen shows **1**.

To change to **A** or **1**

Press **(INPUT MODE)**.



Entering a Letter with an Accent Mark

Press **(SHIFT)**, then press the key with the accent mark.

Note on **(SHIFT)**

Make sure that the indication shows **sh** after you press **(SHIFT)**.

Press **(SHIFT)** every time you enter a letter with an accent mark.

Correcting Letters and Numbers

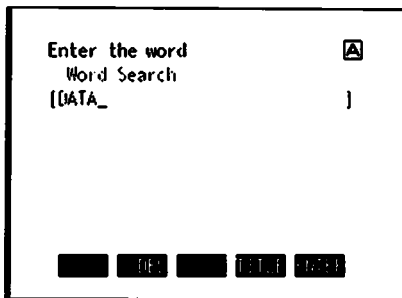
You can correct letters and numbers you have entered in the display.

To erase all the letter and numbers on a line

Press **(F2)** (DEL).

To erase a letter or a number to the left of the cursor

Press **◀**.



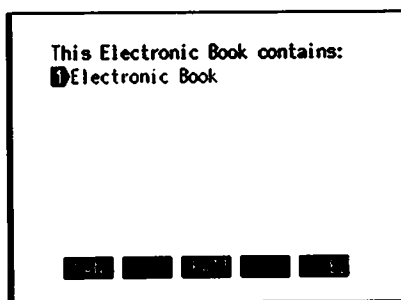
If you are using Multi-Search or Keyword Search, to erase all entries:

Press **(F3)** (CLEAR).

Choosing an Electronic Book Title

After you have inserted an electronic book and turn on the player, the opening message appears briefly and then changes to the title selection menu. From here, you can select a title and start a search session.

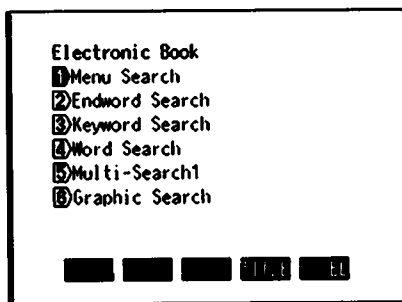
A single electronic book can contain up to 8 separate titles (volumes). Choose the title to open (like opening a book) from the menu. Below is an example.



If the electronic book contains only one title, the title selection menu will appear only briefly, then automatically change to the search method menu.

Selecting a Search Method

An electronic book title is published with one or more of the standard search methods. After you have selected a title, the search method menu appears. Select a desired method to do your search.



If the electronic book contains only one search method, the search method menu will appear only briefly, then automatically change to the search definition screen.

Note

There may be up to 5 different Multi-Searches, each with different search conditions.

Entering Search Conditions

Each search method has a standard screen, called the search definition screen, where you define the search conditions. The following describes each of them.

Word Search

The Word Search is used to find all words that begin with the entered letters. Below is the search definition screen for Word Search.

Enter the word

Word Search

[_]

Use the keyboard to type in a word. For example, by pressing Ⓐ and Ⓑ you can search for all words which begin with the letters AB.

Enter the word

Word Search

[AB _]

Entering Search conditions

Endword Search

The Endword Search is used to find all words that end with the entered letters. Below is the search definition screen for Endword Search.

Enter the word

Endword Search

[_]

OK

Cancel

Print

Quit

Keyword Search

The Keyword Search can search for all entries that contain from one to five desired keywords. Enter as many keywords as desired. Below is the search definition screen for Keyword Search.

Enter the words

(1)[_]

(2)[

(3)[

(4)[

(5)[

]

]

]

]

]

OK

Cancel

Print

Quit

Menu Search

With the Menu Search you can select from a list of categories, sub-categories, etc. Below is a representative search definition screen for Menu Search. The Menu Search on your purchased electronic book will be different.

```

MENU
① IRREGULAR VERBS
② COMMON ABBREVIATIONS
③ NUMERICAL EXPRESSIONS
④ AFFIXES
⑤ WEIGHTS AND MEASURES
⑥ GEOGRAPHICAL NAMES
⑦ COMMON FORENAME
⑧ THE WORKS OF WILLIAM SHAKESP
[ ] [ ] [ ] [ ] [ ] [ ]

```

Multi-Search

Multi-Search is used to search for information by specifying a set of conditions. An electronic book title may contain as many as 5 different Multi-Searches. Below is a representative search definition screen for Multi-Search. The Multi-Search on your purchased electronic book will be different.

```

Enter the words [A]
Input the word directly
[ _ ]
Number of letters in the word
[ | ]
Grammatical classification
[ { } ]
Category of usage
[ { } ]
[ ] [ ] [ ] [ ] [ ] [ ]

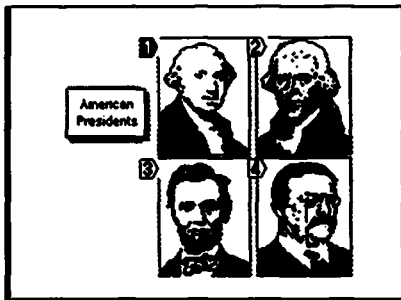
```

Multi-Search questions can be answered by typing an answer directly, or when the (F1) label show "REF" by choosing from a reference list of answers.

Entering Search Conditions

Graphic Search

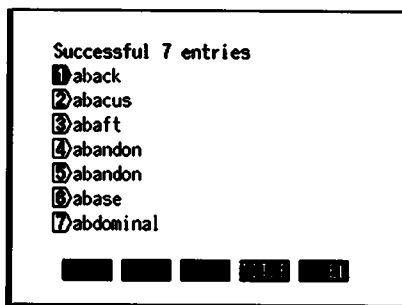
Graphic Search uses pictures and graphic symbols to find information. Below is a representative search definition screen for Graphic Search. The Graphic Search on your purchased electronic book will be different.



Starting the Search

After entering the search conditions, press **(YES)** to start searching. After a while, a list of matched entries appears (or a message indicating no match was found).

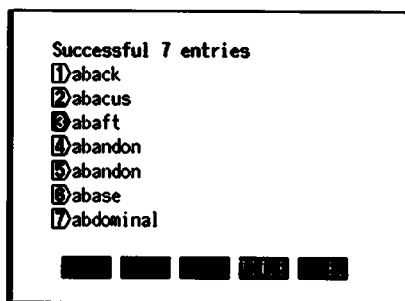
As an example, a Word Search for all entries which begin AB could result in 7 entries as shown below.



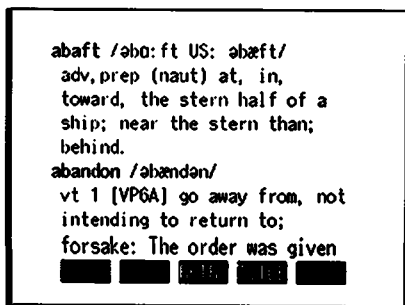
Note

Pressing **(NO)** during a search will stop the search process.

Move the cursor to a desired entry, "abaft" for example. (Or press **(3)** for direct selection.)



and press **(YES)** to see the results.



Viewing the Search Results

Viewing Text

This player can display 9 lines (30 characters each) of text on its screen. The bottom row of the screen shows a set of five function keys which correspond to (F1) to (F5) .

You can use the following keys to navigate in a text screen.

Key	Action
▲	Scroll backwards one line.
▼	Scroll forward one line.
◀	Scroll backwards one page.
▶	Scroll forward one page.
⬆	Move to the previous entry in the text.
⬇	Move to the next entry in the text.
	Note These functions may not be active on all publishers' electronic books.
⌂	Return to the initial screen of the search result.
⬆	Scroll backwards continuously.
⬇	Scroll forward continuously.
	Note There are three Autoscroll speeds, which will change each time the key is pressed. To stop Autoscroll press (NO).
(F3) (RETRY)	Return to the search definition screen.
(F4) (TITLE)	Return to the title selection menu.

Using Cross Reference Links

An electronic book can contain cross reference links to related text, pictures, or sound tracks. A cross reference link is indicated as shown here.

- ① picture of Data Discman
- ② electronic book

datum /deɪtəm/
n fact. ③ data

dealer
n 1 person who deals out
playing-cards. 2 trader:

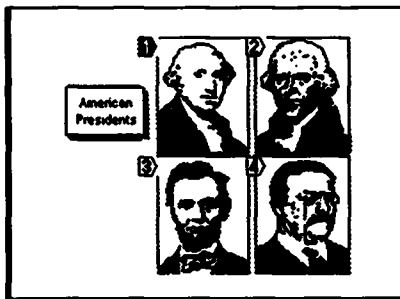
DEALER DEALER DEALER DEALER DEALER

Use ▲, ▼, (F1) (PREV), or (F2) (NEXT) to move to a desired link, and press (YES) to see the linked information. For fast selection, you can also directly enter the number of the desired link (In this example, that means pressing ①, ②, or ③.)

Viewing the Search Results

Viewing Graphical Pictures

A single picture can have up to 9 cross references to other pictures, to text, or to sound tracks.



You can use the following keys to navigate in a graphical picture.

Key	Action
▲ ▼	Select a cross reference.
(YES)	Jump forward to the selected cross reference.
(NO)	Jump backwards to the previous data.
① - ⑨	Jump to the indicated cross reference.
(F3) (RETRY)	Return to the search definition screen.
(F4) (TITLE)	Return to the title selection menu.

Handling Automatic Sequence of Pictures

Some electronic books contain an automatic sequence of pictures, just like a cartoon. The graphic screen changes based upon a preset time delay, or according to a sound track.

During an automatic sequence the following keys can be used.

Key	Action
(NO)	Stop the automatic sequence. Note Holding down (NO) will automatically back up through the sequence.
(F1)	Move to the previous screen.
(F2)	Move to the next screen.

Listening to Audio Information

An electronic book with the  mark can contain sound tracks accessible from a cross reference link.

During the playback of audio information, the following keys can be used.

Key	Action
►	Fast forward
◄	Fast rewind
(YES)	Pause, press again to resume play
(NO)	Stop the playback

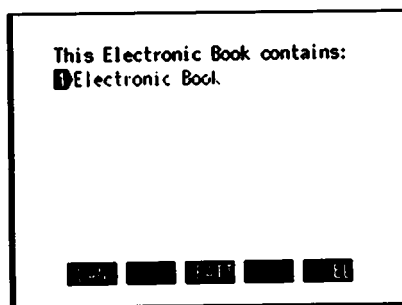
Changing the Search Control Language

You can easily change the language of the search control commands that appear on the screen.

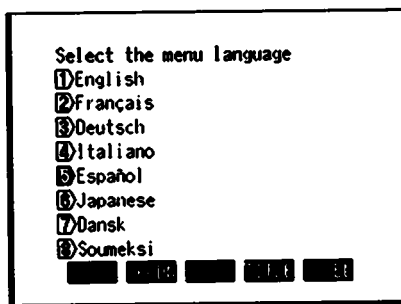
This function is only good for electronic books that have the search control language select function. The language of the text on the book is determined by the publishers.

The example below shows how to change the language to Spanish.

- 1 At the title selection menu, press **(F1)** (LANG) or **(1)**.



- 2 Move to "Español" and press **(YES)** or **(F5)** (SEL). (Or press **(5)** for direct selection.)



The language changes to Spanish.

El Libro Electrónico contiene:

① Compton's Concise

② About This Disc



Note

The language you can convert to are different depending on the electronic book. Be sure to inquire about this function before purchasing an electronic book.

Additional Information

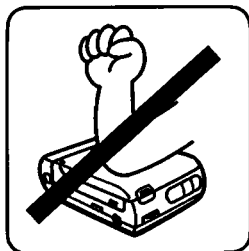
Precautions

This section describes the precautions you should follow when using the player. Read this section carefully before using the player.

Electronic Book Player

On Safety

- Since the display is made of glass, do not, for example, rest your elbow on the player, or place heavy objects (such as books) on it. The glass used for the display may break.



- As the laser beam used in this player is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Do not put anything in the safety slot inside the disc compartment. If you do so, the laser beam may come out when the lid is opened.
- Do not put anything in the DC IN 6V (external power input) jack.
- When the player is used with the AC power adaptor, do not wrap the unit in a cloth, blanket, etc. If you do so, the temperature inside and outside the player may rise considerably, resulting in malfunctioning of the player or serious accidents.
- Should any solid object or liquid fall into the player, disconnect the power source and have the player checked by qualified personnel before operating it any further.
- Do not drop the player as a malfunction may result.

On power sources

- Use the supplied rechargeable battery pack, regular batteries (not supplied) or AC power in your home or office.
- For AC operation: Use the AC power adaptor supplied with this player. Do not use any other AC power adaptors as they may cause malfunction.
- When the player is not to be used for a long time, be sure to disconnect the power sources (AC power adaptor, rechargeable battery pack or batteries) from the player. To remove the AC power adaptor from the AC outlet, pull on the plug. (Do not pull on the cord.)

On installation

Never expose the player to:

- heat sources such as radiators or air ducts.
- direct sunlight.
- excessive dust.
- moisture or rain.
- mechanical vibration or shock.
- inclined position.
- a dashboard or leave it in a car parked in sunlight.

On condensation

If the player is brought directly from a cold location to a warm one, or is placed in a very damp room, condensation may occur on the lens inside the player, causing it to malfunction. If this happens, remove the electronic book or compact disc inside, and leave the player in a warm place for a few hours until the condensation evaporates.

About the lens

The lens on the disc table should be kept clean. Do not touch the lens or poke at it. If you do so, the lens may be damaged and the player will not operate properly.

About the temperature

The bottom of the player may get warm. This is not a malfunction. The AC power adaptor also gets warm. This is also not a malfunction. However, if the AC power adaptor gets excessively hot, disconnect it and have it checked by your nearest Sony dealer.

If you have any questions or problems concerning your player, contact your nearest Sony dealer.

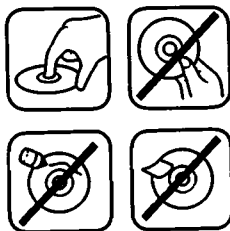
Electronic Books and Regular Compact Discs

When listening to a compact disc

- Avoid listening with your headphones:
 - while driving, cycling, etc.
 - for an extended period of time at a loud volume.
- Remember not to disturb those near you with the sounds from your headphones.

Handling electronic books and compact discs

- Electronic books
Always keep the electronic book disc in its caddy. The caddy is designed to protect the disc from getting scratched or dirty. Do not remove the disc from the caddy unless necessary.
- Compact discs
Always hold a disc by its edges. Do not touch the surface. Do not stick paper or write anything on the surface of the disc.



Storing electronic books and compact discs

- Never store electronic books or compact discs:
 - in direct sunlight.
 - in a place subject to high temperature.
 - on the dashboard or seat of a car in summer or in direct sunlight.
- When you are not going to use an electronic book or compact disc for a long time, remove it from the player. Keep the electronic book disc in its caddy. Keep the compact disc in its case. The disc may warp if you do not keep it in its case. Do not stack it with other discs or stand it in an inclined position.

Maintenance

This section explains how to keep the player, electronic books and compact discs in good condition.

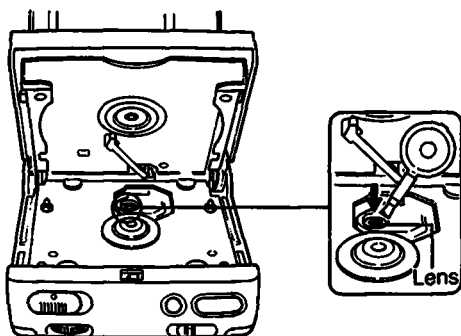
Electronic Book Player

Cleaning the casing

Clean the casing with a soft cloth slightly moistened with water or a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine as they may damage the finish of the casing.

Cleaning the lens

If you accidentally touch the lens with dirty fingers or if dust on the lens prevents the player from operating properly, open the disc compartment lid and clean the lens with the lens cleaning kit (not supplied).



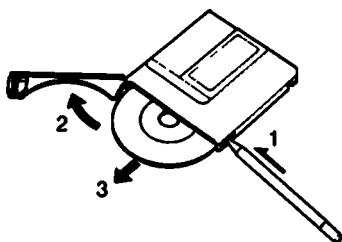
Cleaning the headphones plug

Keep the headphones plug clean to obtain optimum sound. Wipe the plug with a dry, soft cloth.

Electronic Books and Regular Compact Discs

Each electronic book disc is housed in a caddy for protection against scratches and dust. Therefore, avoid taking out the disc except for maintenance or troubleshooting.

Dust accumulation on an electronic book disc may render reading the book contents impossible. If this happens, remove the disc from its caddy and clean it, as shown below.



- 1** Use a pen (or similar object). Insert it into the slot marked "OPEN" and gently slide it to open the cover.
- 2** Open the cover fully.
- 3** Hold the disc by its edge and take it out.
- 4** Clean the disc from the center out, using a clean soft cloth.



- 5** Insert the disc back into its caddy. Make sure the label sides of the disc and the caddy are facing the same direction.

A regular compact disc can be cleaned in a similar way.

Caution

For cleaning, do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for use with records.

Troubleshooting

Refer to the following table if you have problems with the electronic book player. If problems continue, consult your nearest Sony dealer.

Trouble	Cause	Reference page
Pressing ► (POWER ON) cannot turn on the player.	<ul style="list-style-type: none"> • The electronic book disc has been inserted into the caddy upside down. 	62
	→Insert the electronic book disc correctly with the label side up.	
	<ul style="list-style-type: none"> • The electronic book disc or compact disc is dirty. 	62
	→Clean the electronic book disc or the compact disc.	
	<ul style="list-style-type: none"> • The lens in the player is dirty. 	61
	→Clean the lens.	
	<ul style="list-style-type: none"> • Condensation has occurred inside the player. 	59
	→Remove the electronic book disc or compact disc from the player and leave the player in a warm place for a few hours.	
	<ul style="list-style-type: none"> • The AC power adaptor is not connected properly. 	15
	→Connect the AC power adaptor correctly.	
No sound comes from the headphones.	<ul style="list-style-type: none"> • The rechargeable battery pack is discharged. 	18
	→Recharge the battery pack.	
	<ul style="list-style-type: none"> • The HOLD switch is on. 	32
	→Slide the switch in the opposite direction.	
The sound skips.	<ul style="list-style-type: none"> • The CONTRAST control is set to L. 	31
	→Adjust the CONTRAST control to a comfortable level.	
	<ul style="list-style-type: none"> • The headphones are not connected correctly. 	32
	→Plug the headphones into the PHONES jack.	
	<ul style="list-style-type: none"> • The VOLUME control is set to the minimum level. 	32
	→Adjust the VOLUME control to a comfortable level.	
	<ul style="list-style-type: none"> • The compact disc is dirty. 	62
	→Clean the compact disc.	
	<ul style="list-style-type: none"> • The compact disc is damaged. 	33
	→Replace the disc.	

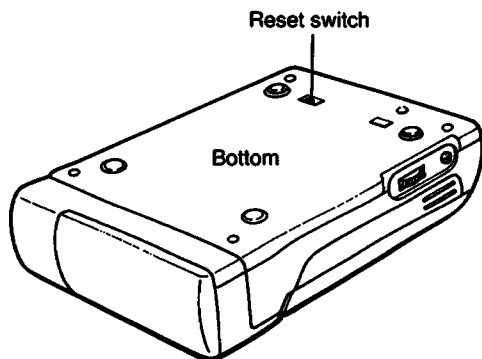
If an Error Message Appears

If any error message appears, refer to the following table.

Error Message	Cause/Solution	Reference page
Cannot charge the battery	<ul style="list-style-type: none">• The rechargeable battery pack is not installed. → Install the rechargeable battery pack.• The rechargeable battery pack is completely discharged. → Wait for the message "Now charging the battery" to appear.	16 19
Cannot read the disc <ul style="list-style-type: none">• Re-insert the disc• Clean the disc	<ul style="list-style-type: none">• The electronic book disc or compact disc is dirty. → Clean the electronic book disc or compact disc.• The electronic book or compact disc is not inserted correctly. → Re-insert the electronic book or compact disc correctly.	62 26, 33
Please insert the disc	<ul style="list-style-type: none">• No electronic book is inserted into the player. → Insert an electronic book.• The electronic book disc is upside down. → Insert the disc with the label side up.	26 62
The battery is empty	<ul style="list-style-type: none">• The rechargeable battery pack or batteries are discharged. → Recharge the battery pack or replace the batteries.	18, 20
The disc inserted is not an EB	<ul style="list-style-type: none">• The format of the disc is inappropriate. → Use an electronic book that has the electronic book mark.	9

If the Player Does Not Operate

If the player does not operate while being used, reset it by pressing the reset switch with a pointed device (such as the tip of a ballpoint pen). This turns off the player, so that you can start over again.



Specifications

Model	Electronic player
D/A conversion	16-bit linear digital filter

Laser diode properties

Material	GaAlAs
Wave length	780 nm
Emission duration	Continuous
Laser output	Less than 44.6 μ W
(This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.)	

Output connector

When the power voltage is 6V

VIDEO OUT	Mini jack	
	Maximum output level	1 Vp-p
	Load impedance	75 ohms
PHONES	Stereo mini jack	
	Maximum output level	7 mW + 7 mW
	Load impedance	32 ohms

Power

Power requirements	U.S.A. model: 120 V AC, 60 Hz
	European model: 220-230 V AC, 50 Hz
	using the supplied Sony AC power adaptor
	connected to the DC IN 6V jack
	4V DC
	using the supplied BP-2EX rechargeable
	battery pack
	6V DC
	using 4 size AA (LR6) batteries (not supplied)
	12 V DC
	using the DCC-E160L car battery cord (not supplied)
Power consumption	1.6 W DC (when display light is off)
	2.2 W DC (when display light is on)

General

Dimensions	Approximately 110.0 x 35.0 x 157.0mm (4 ³ / ₈ x 1 ¹¹ / ₁₆ x 6 ³ / ₈ in.) (w/h/d)
Weight	Approximately 550 g (1 lb 3 oz) (not including battery)
Supplied accessories	AC power adaptor (1) Rechargeable battery BP-2EX (1) Video connecting cord (1) Headphones (1)

Design and specifications are subject to change without notice.

Accessories not supplied

Car battery cord	DCC-E160L
Trinitron color TV	KV-13TR24 (recommended for the USA)

Your dealer may not handle some of the above listed accessories.
Ask the dealer for detailed information about the accessories available in your country.

Note

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

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